

Safety Review

**Presented to
Oak Ridge Safety and Labor
Management Partnership Forum**

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**OAK RIDGE NATIONAL LABORATORY
U. S. DEPARTMENT OF ENERGY**

Improving safety performance requires multiple actions

Injury Rates

Work Environment

- **Facilities Modernization Program**
 - System walk downs in Nuc. Facilities
 - Lab-wide fire protection upgrade
 - Accelerated/continued D&D
 - System Engineering Subject Area implemented
 - Operations Maintenance & Services Work Control Procedure complete
 - Reduced 348,000 sq. ft. of older facility space
- **Legacy cleanup**
 - 200,000 ft.² cleaned
 - 120 tons of scrap metal
 - 9,000 cubic yards f LLW
 - 704 gas Cylinders
- **Equipment/Environment**
 - HVAC upgrades in 4500 area
 - Electrical power distribution upgrades (lineman safety)
 - Traffic safety: traffic control, speed; enforcement

Systems, Training Procedures

- **SBMS**
 - Baseline requirements for lab operations
 - Integrates business and operating processes
 - Implementation 70% complete
- **Training**
 - Complete definition of training requirements and guidelines in SBMS
 - System owners and SME's involved in training development
 - Identification of job/task-based training for all staff positions
 - Electronic management of training qualifications
 - Application of a systematic approach to training
 - Line management determines instructor qualifications
- **Self-Assessment**
 - Business and Performance Assessment Plans
 - Assessment schedule
 - Response to assessment results

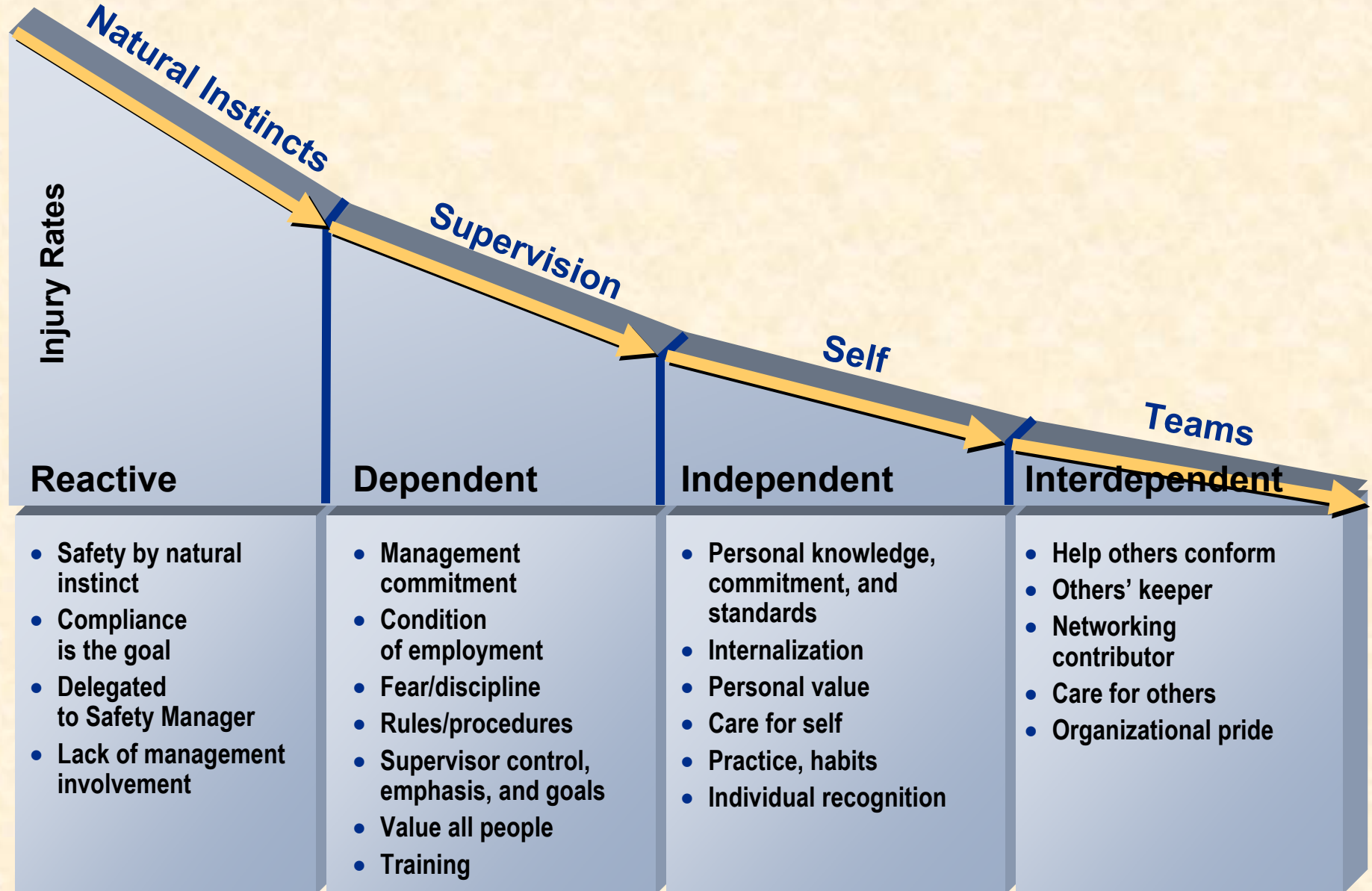
Individual behavior

- **Involvement**
 - Accountability
 - R2A2's
 - Incident investigation
 - Incentive plans
 - Safety Teams
 - DuPont STOP Program
- **Safety 1st**
 - Lab-wide awareness
 - Multiple media
 - Time/relevant topics
 - Utilizes lessons learned
 - Recognition of 1,000,000 safe hours

We must apply the following core principles with intensity and passion

- All injuries and illnesses can be prevented
- Safety is everyone's responsibility
- Management is directly accountable for providing tools, infrastructure, systems and resources to ensure a safe work environment
- Safe work practice is a condition of employment
- Training and communication are essential
- Unsafe conditions must be corrected promptly
- Accidents must be investigated and lessons shared
- Off-the-job safety is equally important to us
- Excellence in ES&H is good business
- **People are the key**

Changing behavior is required to get to Best in Class



We are taking steps to improve our safety culture throughout the Laboratory

Lab-Wide Safety Initiatives:

- Management emphasis
- Group Leader training
- Work Control implementation
- Aggressive case management
- Communication/awareness
- Milestone celebrations



Safety 1st

Are you aware that, on average, an ORNL employee is injured on the job every three days?

Learn from others
<http://safety1st.ornl.gov>

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MEMBER OF THE TRIUMF NATIONAL LABORATORY

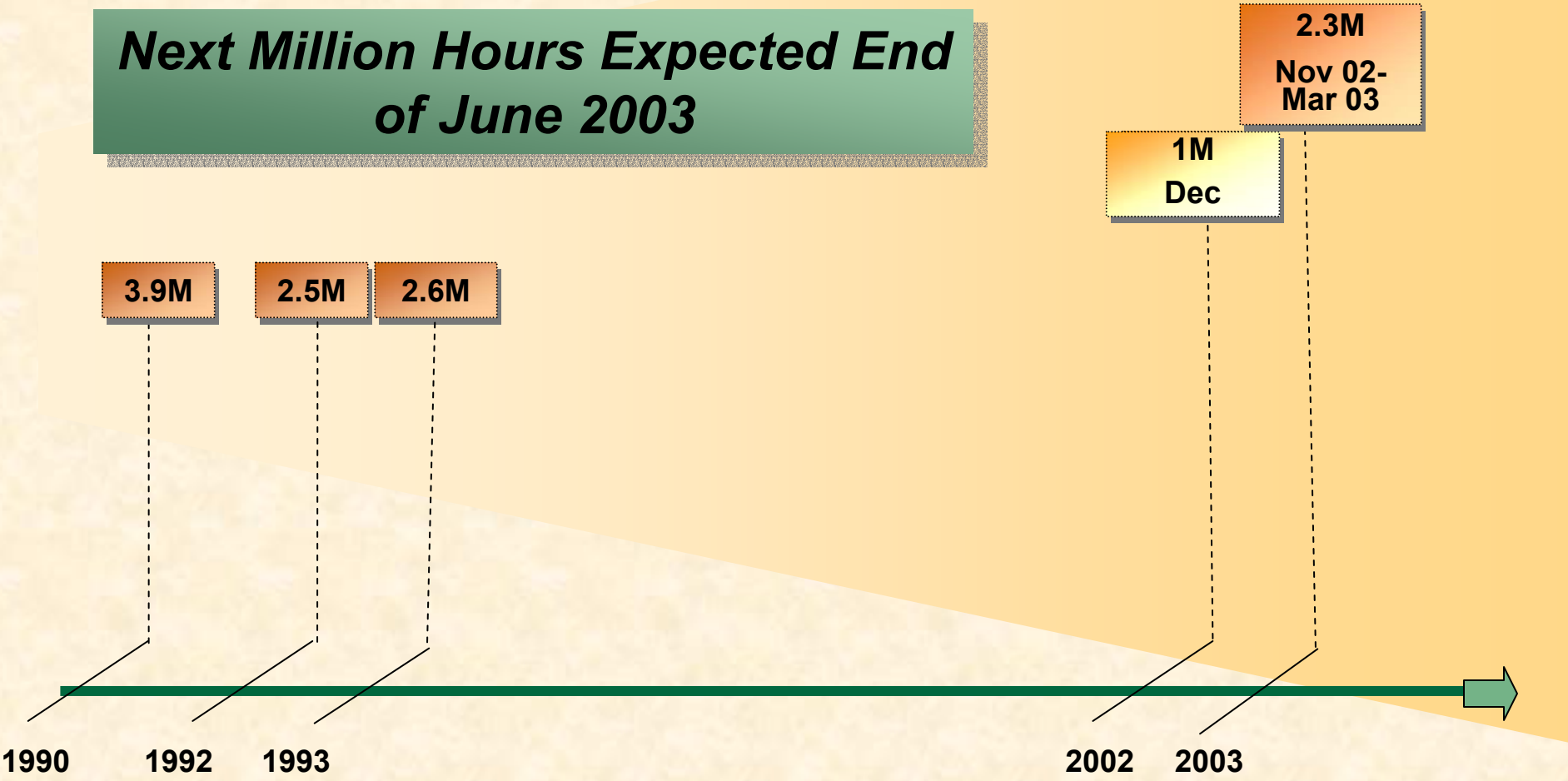
Examples of events that have occurred since Dr. Madia's February 19 meeting with Senior Managers

Radiation Generating Device Incident
Modification of radiation-generating device was made without contacting radiation protection personnel. Fortunately workers received no dose.
Lesson Learned
Contact radiation protection personnel when any modifications are made to radiation-generating devices.

Back Strain
6 workers have strained their back, neck, or shoulder since February 19.
Lesson Learned
Be aware of your body positioning and get help when lifting heavy loads.

Historical Timeline for Reaching Million Hour Milestones

Next Million Hours Expected End of June 2003



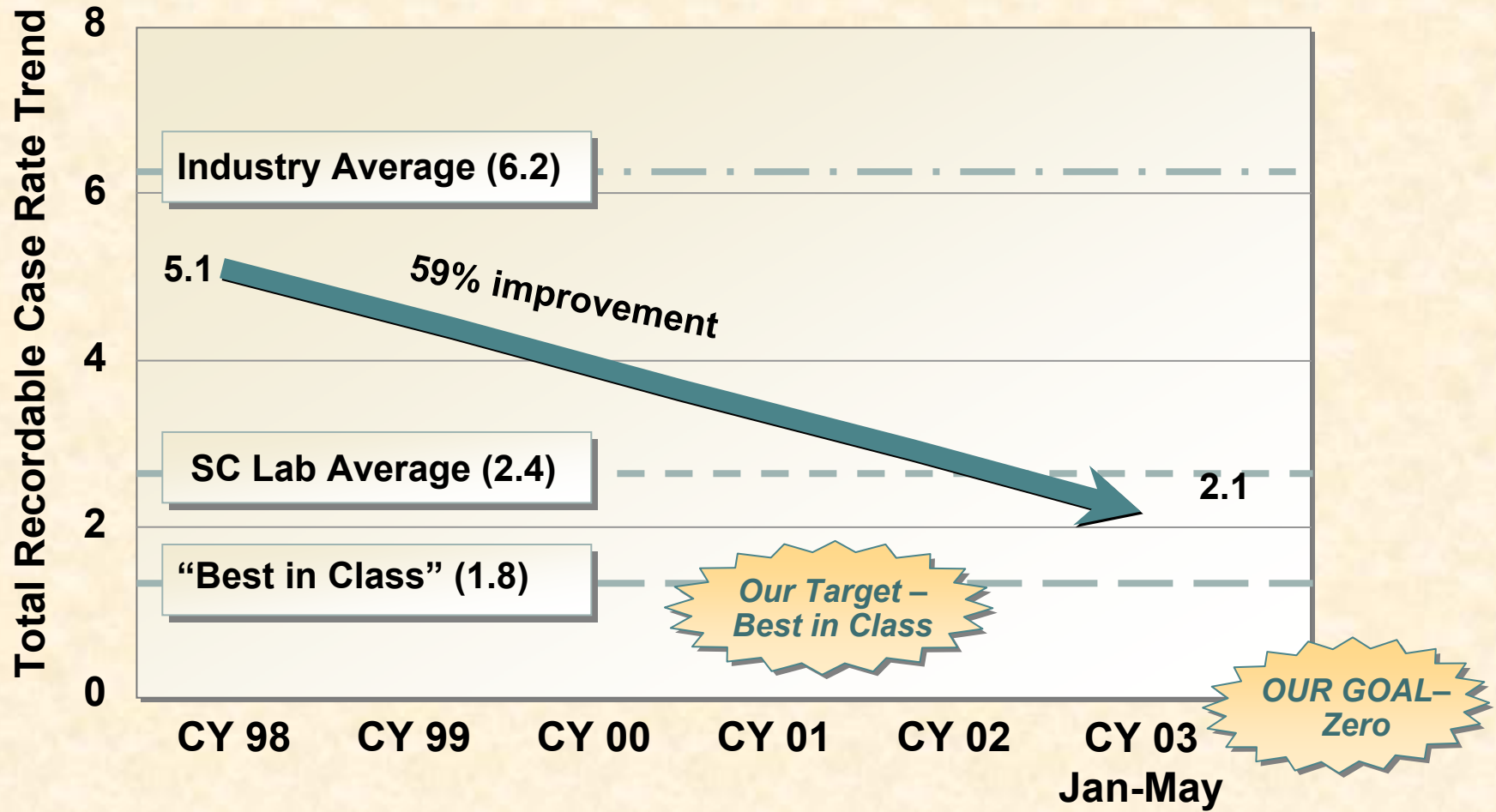
1990 1992 1993

2002 2003

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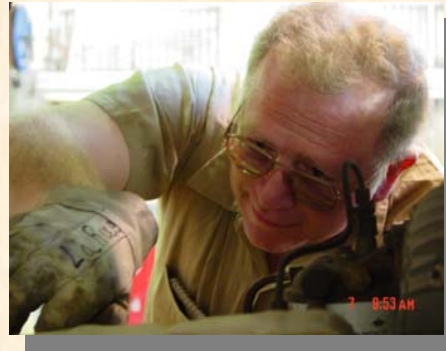


Our safety performance is improving but much still can be done



Safe Work Hours Counts Only Those Work-Related Injuries/Illnesses Resulting in Days Away From Work
(As of May 31, 2003)





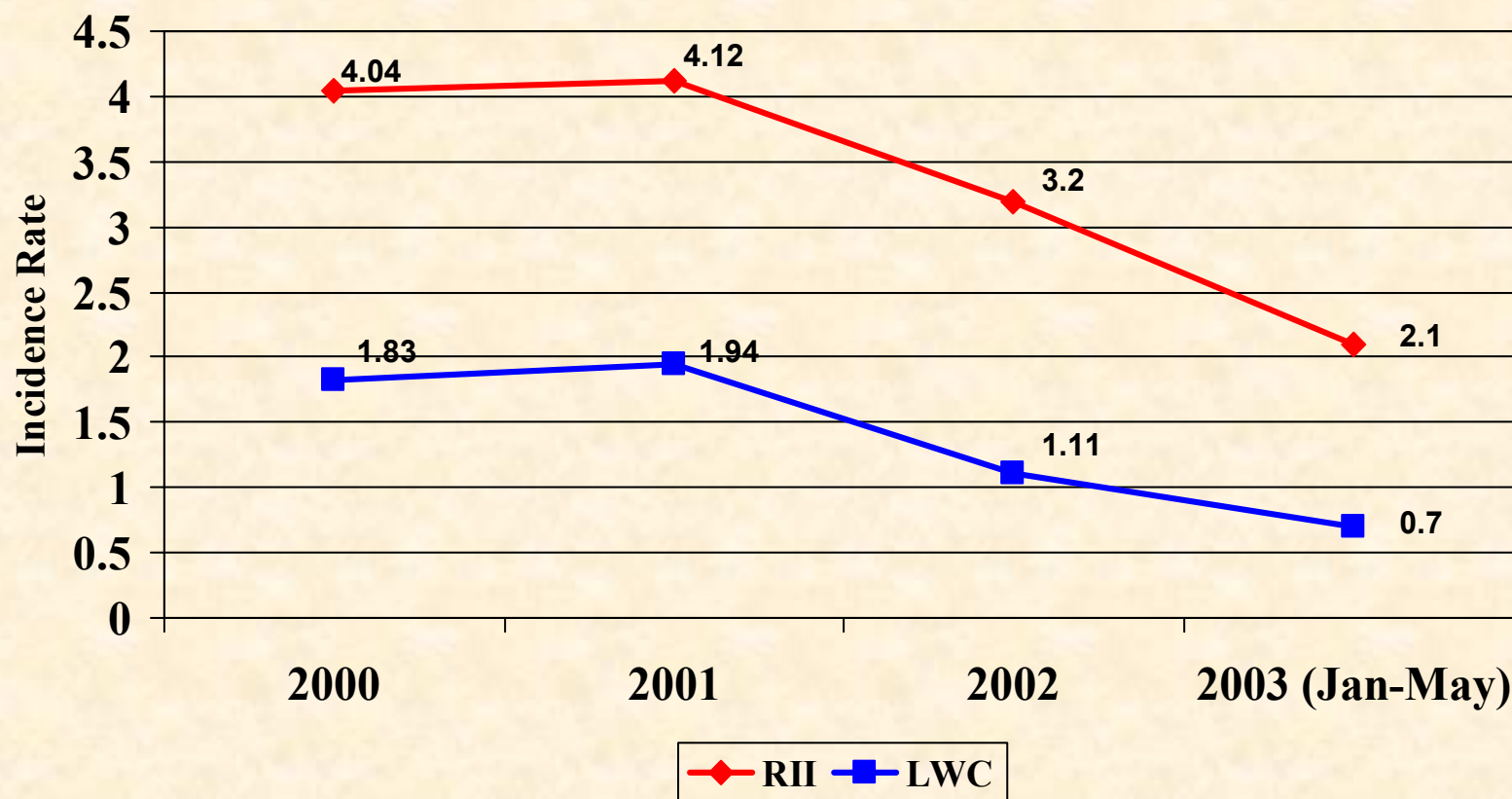
People are the key!



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UT-BATTELLE

Recordable and Lost Workday Case Rates CY 2000 Through CY 2003 YTD



ORNL DEEP DOSE EQUIVALENT

Collective Deep Dose Equivalent vs Year (Total Staff)

